CONTENTS OF VOLUME THE THIRTEENTH.

PAGE

Our First Reserve. By Captain L. Loftus B. Fox, Royal Longford Rifles.... 1

Inglefield's New Hydraulic Steering Apparatus, as being fitted to H.M.S. "Achilles." By Captain E. A. Inglefield, R.N., F.R.S..... 22

Expanding Shot-plug; Expanding Sponge for Artillery Practice, and anti-Torpedo Vessel. By Lieutenant A. H. Gilmore, R.N. 30

The Distribution of our War Forces. By Captain J. C. R. Colomb, R.M.A... 37

Recoil utilized. By Lieutenant-General W. N. Hutchinson..... 75

Elevating Gun-platform. By Lieutenant C. P. Stone, 77th Regiment 84

Reforms in Army Administration. By E. B. de Fonblanque, Esq., Deputy Commissary-General 88

Working Guns on the Broadside, with some observations on the all-round fire, combined with the Broadside System of Armament. By Captain Edmund Wilson, R.N..... 110

Deflecting Armour-plated Ships for Coast Defence. By Mr. J. M. Hyde 128

The Establishment of County Military Training Schools: a Suggestion for improving the Recruiting System. By W. Cave Thomas, Esq., late Captain 19th Middlesex Rifle Volunteers 143

Our Reserve Forces. By Lieutenant-Colonel Malet, Grenadier Guards..... 160

The Conversion of our Screw-line of Battle Ships into Armoured Turret Ships. By Charles F. Henwood, Esq., Naval Architect 181

Smith's Life-saving Bed or Mattrass 216

The North-west Frontier of India. By George Campbell, Esq., Bengal Civil Service 217

A Proposition for one General Military School for the Army. By Colonel T. Bernard Collinson, R.E..... 241

Military Transport. By Fredk. Wingfield, Esq., Deputy Assistant Commissary-General..... 263

Storms in the British Islands, and Telegraphic Weather Intelligence. By Robert H. Scott, Esq., Director of the Meteorological Office 287

Summary of the Experiments at Shoeburyness during the year 1868–69. By S. J. Mackie, Assoc. Inst. C.E. 301

Moveable Steel Mantlet for the Protection of Artillery and Troops. By Charles B. Eddy, Esq., M.A. 326

Ammunition Supply-car; Skeleton Ammunition Car; Packing Ammunition, &c. By Lieutenant-Colonel T. Martin, late 4th K.O.R. Regiment 337

Ship-raising, especially with reference to his experience in raising the Russian Ships sunk in the Harbour of Sevastopol. By Colonel J. E. Gowen, U.S. Army..... 348

The Martini-Henry Rifle. By Captain V. D. Majendie, R.A., Asst. Sup., Royal Laboratory, Woolwich..... 360

PAGE

The use of the Collimator for laying Guns for Night-firing. By Lieutenant-Colonel D. Davidson, late Bombay Army 386

The Destruction of Wrecks by explosive compounds. By Lieutenant Herbert Jekyll, R.E. 395

The Application of Photography to Military Purposes. By H. Baden Pritchard, Chemical Department, Royal Arsenal, Woolwich 419

The Launch of H.M.S. "Northumberland." By Rear-Admiral Sir John C. Dalrymple Hay, Bart., C.B., M.P., F.R.S., &c. 435

Photography applied to Military Science. By Lieutenant-Colonel J. Baillie, H.M. Bengal Staff Corps 449

The Revolving System of firing Great Guns. By Commander Benjamin Sharpe, R.N. 460

The Constitution of our Military Forces, and the conditions of Military Service. By Colonel A. Cunningham Robertson, commanding 2nd Battalion 8th or King's Regiment 477

Primitive Warfare. Section III. On the Resemblance of the Weapons of Early Races, their Variations, Continuity, and Development of Form—Metal period. By Colonel A.H. Lane Fox, late Grenadier Guards 509

Mitrailleurs, and their Place in the Wars of the Future. By Major G. V. Fosbery, V.C., H.M. Bengal Staff Corps 539

Suggestions for the Land Transport Service of the Army. By Captain G. G. Beazley, 83rd Regiment 564

Proceedings at a Special General Meeting held in the Theatre of the Institution on Monday 5th July, 1869 576

For names of Members who joined the Institution between 1st January and 14th June, 1869. See pages 22, 57, 110, 128, 160, 181, 217, 241, 326, 395, 435, 460.

APPENDIX.

Proceedings of the Thirty-ninth Anniversary Meeting i

Address of The Right Honourable Edward Cardwell, M.P., Secretary of State for War x

Statement of Changes amongst the members xi

Tabular Analysis xii

Donations xiii

Names of Members who joined the Institution between the 14th June and 31st December, 1869 xiii

Additions to the Library :—

Books presented xiv

Books purchased xxi

Maps, plans, charts, &c. xxvi

Additions to the Museum xxviii

Alphabetical List of Members, corrected to 1st January, 1870 :—

Annual Subscribers 1

Life Members 32

Honorary and Corresponding Members 42